

IN THE ABSTRACT:

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The present invention discloses a hook ended steel wire netting which includes one or more cross rails, one or more longitudinal wires, one or more cross steel wires with end hooks and one or more longitudinal steel wires with end hooks. Sockets are disposed on the cross rails and longitudinal rails. Both end hooks of one or more longitudinal steel wires are inserted into opposing sockets on two cross rails, then longitudinal rails are used to tense the steel wires, and the longitudinal rails are securely connected to cross rails to form a frame. In order to increase the strength of the netting and to reduce the length of the cross steel wires, one or more longitudinal rails connected with cross rails may be added to the frame; and then both end hooks of one or more cross steel wires are inserted into opposing sockets of two longitudinal rails respectively. The cross and longitudinal steel wires are securely connected to each other at the points where they intersect to form a net. In the present structure, the steel wires and the cross and longitudinal rails are connected with bayonet connections, not by welding. Compared to existing technology, the present invention requires fewer components, its connections have a simpler structure, the netting is more durable and can be contrasted using less welding. In addition, the netting has a high elasticity, which increases the comfort of the user. This netting may be used to manufacture camp beds, sofa seats and backs, etc.

ABSTRACT

A hook-ended steel wire netting includes a first cross rail having a row of first sockets on its outer portion in a line along an axial direction; a second cross rail having a row of second sockets on its outer portion in a line along an axial direction; one or more longitudinal steel wires, both ends of which are hooks, a first end hook of each steel wire encloses a part of the outer portion of one of the cross rails and is secured by being inserted into one of the first sockets, and a second end hook of each steel wire encloses a part of the outer portion of one of the cross rails and is secured by being inserted into one of the second sockets. A first longitudinal rail has both ends separately secured to the first end of the first cross rail and the first end of the second cross rail; a second longitudinal rail has both ends separately secured to the second end of the first cross rail and the second end of the second cross rail; and wherein the first longitudinal rail and the second longitudinal rail tense the steel wires to form a steel wire netting.